SEED

Introduction

SEED Browser

SEED Browser is a way to browse SEED product names and subsystems. It can be accessed through **SEED** on the second-level menu of **Find Functions**, as shown in Figure 1.
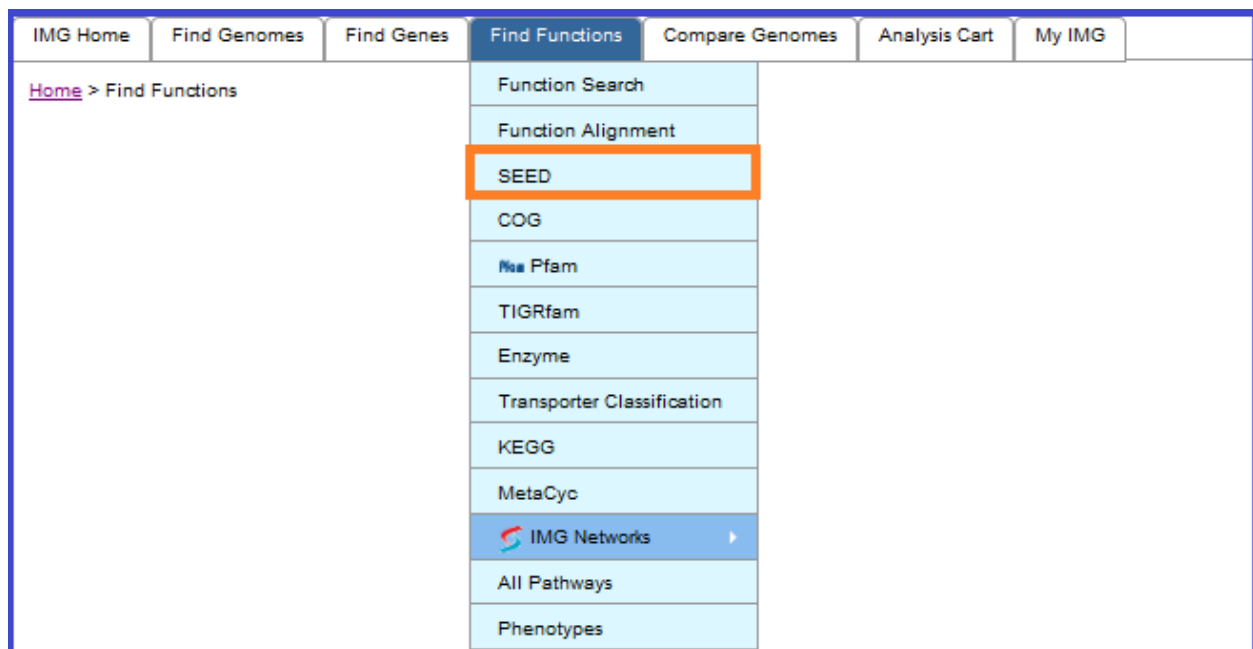

Figure 1: Access SEED Browser.

The page of **SEED Browser**, as shown in Figure 2, displays a complete list of SEED product names and subsystems. Clicking the link for "SEED product name" results in a table display of that particular SEED product, see Figure 3.

Home > Find Functions

14382 SEED Product (1094 Subsystem) Loaded.

SEED Browser

SEED list

01 Amino Acids and Derivatives
    02 Alanine, serine, and glycine
        Alanine_biosynthesis
- Alanine racemase (EC 5.1.1.1)
- Alanine racemase, biosynthetic (EC 5.1.1.1)
- Alanine racemase, catabolic (EC 5.1.1.1)
- Branched-chain amino acid aminotransferase (EC 2.6.1.42)
- Cysteine desulfurase (EC 2.8.1.7)
- Cysteine desulfurase (EC 2.8.1.7), IscS subfamily
- Cysteine desulfurase (EC 2.8.1.7), NifS subfamily
- Cysteine desulfurase (EC 2.8.1.7), SufS subfamily
- Cysteine desulfurase CsdA-CsdE (EC 2.8.1.7), main protein CsdA
- Cysteine desulfurase, mitochondrial precursor (EC 2.8.1.7)
- Glutamate-pyruvate aminotransferase (EC 2.6.1.2)
- HTH-type transcriptional regulator IlvY
- Probable valine-pyruvate aminotransferase (EC 2.6.1.66)
- Valine--pyruvate aminotransferase (EC 2.6.1.66)

        Glycine_Biosynthesis
- 2-amino-3-ketobutyrate coenzyme A ligase (EC 2.3.1.29)
- Glycine riboswitch
- L-threonine 3-dehydrogenase (EC 1.1.1.103)
- Low-specificity L-threonine aldolase (EC 4.1.2.5)
- Serine hydroxymethyltransferase (EC 2.1.2.1)

        Glycine_and_Serine_Utilization
- 2-amino-3-ketobutyrate coenzyme A ligase (EC 2.3.1.29)
- Aminomethyltransferase (glycine cleavage system T protein) (EC 2.1.2.10)
- Cystathionine beta-synthase (EC 4.2.1.22)
- Cystathionine gamma-lyase (EC 4.4.1.1)
- D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)
- D-serine dehydratase (EC 4.3.1.18)
- D-serine dehydratase transcriptional activator
- D-serine permease DsdX
- D-serine/D-alanine/glycine transporter
- Glycerate kinase (EC 2.7.1.31)

Figure 2: SEED Browser.

Home > Find Functions

1 SEEDs retrieved

SEEDs

[Select All]   [Clear All]

Search column: SEED Product Name ▼   Search term: [   ]

[Export]   Page 1 of 1   << first < prev **1** next > last >>   [All ▼]

[Column Selector]   [Select Page]   [Deselect Page]

Select	SEED Product Name ▲	SEED Subsystem	Level 2	Level 1	Gene Count	Genome Count
☐	Alanine racemase (EC 5.1.1.1)	Alanine_biosynthesis	Alanine, serine, and glycine	Amino Acids and Derivatives	854	771

[Export]   Page 1 of 1   << first < prev **1** next > last >>   [All ▼]

Figure 3: Table Display of individual SEED.

SEED List

Further, user can click the "SEED List" link to have a table list of all the SEEDs, as shown in Figure 4. Through the table, user can select and export the data of desired rows by using the provided "Select All"/"Clear All" buttons.

Figure 4: Table Display of All SEEDs.